NOVPRISE THE SEA SECTION (*) Instite this box = +

Based on PTO/SB/08 a & b (05-03)
Approved for use through 07/31/2006. OMB 0551-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond a collection of information unless it contains a valid OMB control number

Complete if Known Substitute for form 1449A/PTO **Application Number** 10/815,117 INFORMATION DISCLOSURE Filing Date 07-07-2003 STATEMENT BY APPLICANT First Named Inventor Barin G. Haskell (use as many sheets as necessary) 2613 Group Art Unit An, Shawn S. **Examiner Name** APLE.P0035 **Attorney Docket Number** Sheet of 2

				U.S.	PATENT DOCUMENTS	
Examiner* Initiate	Cite No.1	rumber N	cument nd Code ² if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pagos, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
5	1.	5,790,131	Α	08-04-1998	Liang, et al.	
\$	2.	5,867,221	A	02-02-1999	Pullen, et al.	
80	3.	5,872,598	A	02-16-1998	Legali, et al.	
SA	4.	5,923,376	Α	07-13-1999	Pullen, et at.	

•			•		FOREIGN PA	TENT DOCUMENTS		_
Examiner*	Cite No.1	For	reign Patent Do Number	cument Kind Code (# known) ⁹	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Peges, Columns, Lines, Where Relevant Pessages or Relevant Figures Appear	Tª
9	5.	AU	2,597,697	A	10-22-1997	Iterated Systems, Inc.	See Int'i. Search Rep Form PCT/ISA/210 (Counterpart to US 5923376 A)	
Jo	6.	AU	3,208,897	A	12-05-1997	Iterated Systems, Inc.	See Int'i. Search Rep Form PCT/ISA/210 (Counterpart to US 5790131 A)	
Gr	7.	EP	0,890,265	A1	01-13-1999	Iterated Systems, Inc.	See Infl. Search Rep Form PCT/ISA/210 (Counterpart to US 5923376 A)	
Sp	8.	wo	9,737,495	A1	10-09-1997	Iterated Systems, Inc.	See Int'l. Search Rep Form PCT/ISA/210 (Counterpart to US 5923376 A)	

Examiner Signature	din	Date Considered	2/3/06

remission in patients.

This collection of information is required by 37CFR 1.97 and 1.88. The information is required to obtain or retain a benefit by the public which is to fite (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burdon, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissionar for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw the through citation if not in conformance and not considered, include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Mind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language

Please type a plus sign (+) inside this box ***	+
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Based on PTO/SB/03 a & b (05-03)
Approved for use through 07/31/2003. OA(8 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF CONLERCE
Under the Paperwork Reduction Act of 1993, no persons are required to respond to a collection of information unless it contains a valid OA(8 control number

				Complete If Known		
;	Substitute for form 1	449A/P	то	Application Number	10/615,117	
	RMATION DI			Filing Date	07-07-2003	
SIAI	EMENT BY	APPL	ICAN I	First Named Inventor	Barin G. Haskell	
(us	e es many sheets e	s neces	sary)	Group Art Unit	2613	
				Examiner Name	An, Shawn S.	
Sheet	2	of	2	Attorney Docket Number	APLE.P0035	

FOREIGN PATENT DOCUMENTS							
Fr	9.	wo	9,743,860	A1	11-20-1997	Iterated Systems, Inc.	See Int'l. Search Rep Form PCT/ISA/210 (Counterpart to US 5790131 A)

NON PATENT LITERATURE DOCUMENTS						
Examiner*	Cite No.	include name of the author (in CAPITAL LETTERS), title of the criticle (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	74			
n	10.	CHOI, J., et al., "A Stable Feedback Control of the Buffer State Using the Controlled Language Multiplier Method," <i>IEEE Transactions on Image Processing</i> , September 1, 1994, pp. 546-558, Vol. 3 No. 5, IEEE Inc., New York, US.				
Su	11.	LEE, W. Y., et al., "Fast Algorithm for Optimal Bit Allocation in a Rate-Distortion Sense, "Electronics Letters, September 26, 1998, pp. 1871-1873, Vol. 32 No. 20, Stevenage, Herts, GB.				
90	12.	YANG, Y., et al., "Rate-Distortion Optimizations for Region and Object Based Wavelet Video Coding," Conference Record of the 34th Asilomar Conference on Signals, Systems & Computers, October 29, 2000, pp. 1363-1368, Vol. 2 of 2 Conf 34, IEEE, New York, US.				

ρ			<u> </u>
	Date 2/3	/	06

Translation is attached.
This collection of information is required by 37 CFR 1.67 and 1.68. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiatity is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief information Officer, U.S. Patent and Trademark Office, U.S. Department of Commence, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

^{*} EXAMINER: Initial if reference considered, whether or not chation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspro.com/www.uspro

	$\overline{}$
TH	+

	Substitute for form	1449A/F	то	Application Number	10/815,117
				Filing Date	07/07/2003
	ORMATION DI ATEMENT BY			First Named Inventor	·Barin Haskell
31/	AIEMENI DI	AFF	LICANI	Group Art Unit	2613
	(use as many sheets	8 2 USC 8	ssary)	Examiner Name	An, Shawn S.
SHEET	3	OF	3	Attorney Docket Number	APLE.P0035

		NON PATENT LITERATURE DOCUMENTS	
Examiner*	Cite No.	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	70
St	11.	WIEGAND T., et. al., "Lagrange Multiplier Selection in Hybrid Video Coder Control," Proceedings 2001 International Conference on Image Processing. October 7, 2001, pages 542-545, vol. 1 of 3, conf. 8, IEEE, US.	
Se	12.	MEI-YIN, SHEN, et. al., "Fast Compression Artifact Reduction Technique Based on Nonlinear Filtering," Proceedings of the 1999 IEEE International Symposium on Circuits and Systems. May 30, 1999, pages 179-182, IEEE, US.	
So	13.	SCHWARZ, H., et. al., "An Improved H.26L Coder Using Lagrangian Coder Centrol," ITU Telecommunications Standardization Sector Study Group 16, October 18, 2001, pages 1-8, (whole document).	
9	14.	SEGALL C. A., et. al., "Pre- and Post-Processing Algorithms for Compressed Video Enhancement," Conference Record of the 34th Asilomar Conference on Signals, Systems, & Computers, October 29, 2000, pages 1369-1373, vol. 2 of 2, conf. 34, IEEE, US.	
So	15.	SEUNGJOON, YANG, et. al., "Blocking Effect Removal Using Regularization and Dithering," 1998 International Conference on Image Processing, October 4, 1998, pages 415-419, IEEE Comput. Soc., US.	
8	16.	MEI-YIN, SHEN, et. al., "Real-time Compression Artifact Reduction Via Robust Nonlinear Filtering," 1999 International Conference on Image Processing, October 24, 1999, pages 565-569, IEEE, US.	
88	17.	DUMITRAS, A., et. al., "Enhancement of Direct Mode Selection in B Pictures for Bit Rate Reduction of Compressed Video Sequences," 2003 International Conference on Image Processing, September 14, 2003, pages 825-828, vol. 3, IEEE, US.	
82	18.	KOSSENTINI, F., et. al., "Predictive RD Optimized Motion Estimation for Very Low Bit-Rate Coding," IEEE Journal on Selected Areas in Communications, December 1, 1997, pages 1752-1763, vol. 15, no. 9, IEEE Inc., New York, US.	
SA	19.	ZHU QF., et. al., "Image Reconstruction for Hybrid Video Coding Systems," Data Compression Conference, March 24, 1992, pages 229-238, IEEE Comput. Soc., US.	

Examiner Signature	(1)	-Date - Considered	2/3/06

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with most communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ²Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as Indicated on the document under WIPO Standard ST. 16 if possible. ⁵Applicant is to place a check mark here if English language Translation is attached.

	Substitute for form	1449A/P	то	Application Number	10/615,117
	•			Filing Cate	07/07/2003
****	ORMATION D ATEMENT BY			First Named Inventor	Barin Haskell
31/	AIEMENIDI	APPL	JCANI	Group Art Unit	2813
	(use as many sheets	es nece:	isary)	Examiner Name	An, Shawn S.
SHEET	2	OF	3	Attorney Docket Number	APLE.P0035

					FOREIGN PA	ATENT DOCUMENTS	
<u> </u>							Report (10-01-2004) Form PCT/ISA/210, sheet 7
Sp	. 8.	ΑU	3054701	A	08-20-2001	Mitsubishi Electric Corp.	Counterpart patent to EP 1170954 Please see Int'l Search Report (10-01-2004) Form PCT/ISA/210, sheet 7
8	2 9.	wo	0160075	A1	08-16-2001	Mitsubishi Electric Corp.	Counterpart patent to EP 1170954 Please see Int'l Search Report (10-01-2004) Form PCT/ISA/210, sheet 7
	10.		International Search Report		10-01-2004		International Search Report for APLE.P0040PCT

Examiner Signature Date Sonsidered 2/6/06

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Urique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-latter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



PTOYSB/08A (08-00) - MODIFIED Approved for use through 10/31/2002. GMB 0651-0031 Petent and Trademark Office. U.S. DEPARTMENT OF COMMERCE

	Substitute for form	1449A/F	OTO STA	Application Number	10/615,117	
			NE CONTRACTOR OF THE CONTRACTO	ding Date	07/07/2003	
	DRMATION DI		OOOIL	First Named Inventor	Barin Haskell	
SIA		AFF	LICANI	Group Art Unit	2613	
(use as many sheets (es nece	ssery)	Examiner Name	An, Shawn S.	
SHEET	1	OF	3	Attorney Docket Number	APLE.P0035	

	U.S. PATENT DOCUMENTS									
Examiner* Initials	Cite No.'		ent Kind Code' if known)	Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Coherna, Lines, . Where Relevant Passages or Relevant Figures Appear				
Co	1.	6,493,385	B1	Sekiguchi, et. al.	12-10-2002					
7	⁻ 2.	6,493,386	B1 _.	Vetro, et. al.	12-10-2002	Counterpart patent to EP 1170954 Please see Int'l Search Report (10-01-2004) Form PCT/ISA/210, sheet 7				
6	3.	6,490,320	B1	Vetro, et. al.	12-03-2002	Counterpart patent to EP 1170954 Please see Int'l Search Report (10-01-2004) Form PCT/ISA/210, sheet 7				
-p	4.	6,574,279	B1	Vetro, et. al.	06-03-2003	Counterpart patent to EP 1170954 Please see Int'l Search Report (10-01-2004) Form PCT/ISA/210, sheet 7				

			R	ELATED U.S	PATENT DOCUME	NTS
Examiner Initials	Cite No.'	U.S. Patent Document Number		Date of filing MM-DD- YYYY	Name of Patentee or Applicant of Cited Document	Related Application Data
50	-5 .	US 2004/0131121	A1	07-08-2004	Dumitras, et. al.	This is attorney docket number APLE.P0040, a related application

					FOREIGN PA	ATENT DOCUMENTS		
Examiner* Initials	Cite No.	Office ³	oreign Patent Do	Kind Code (If known)	Date of Publication MM-DD-YYYY	Name of Patentoe or Applicant of Cited Document	Pages, Cotumns, Lines, Where Relevant Passages or Relevant Figures Appear	70
8	6.	ΕP	1170954	A1	01-09-2002	Mitsubishi Electric Corp.		
	7.		9922525	A1	05-06-1999	Mitsubishi Electric Corp.	Counterpart publication to US 6493385	
Sp 7.]						Please see Int'l Search	<u>L</u>

			7
Examiner Date	9 /	r	ı
Signature Considere	1 9	// 06	
Signature			_

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English tanguage Translation is attached.